

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A method for detecting a tachycardia, comprising:

sensing a heart rate;

comparing the heart rate to a heart rate threshold value;

monitoring a blood pressure sensor upon detecting the heart rate greater than the heart rate threshold value to detect a substantial drop in blood pressure;

initiating invoking a first an adjustable number of intervals detected (NID) threshold upon detecting the heart rate greater than the heart rate threshold value if a substantial drop in blood pressure is not detected;

resetting invoking a second the adjustable NID threshold that is lower than the first NID threshold upon detecting a substantial drop in blood pressure based on at least a first measurement of a hemodynamic parameter that identifies whether a tachycardia is a hemodynamic stable tachycardia or a non-hemodynamic stable tachycardia;

counting a consecutive number of intervals in which the heart rate is greater than the heart rate threshold value;

detecting the making a tachycardia detection if the consecutive number of intervals satisfies the invoked adjustable NID threshold, the tachycardia detection being a detection of a hemodynamically stable tachycardia if the first NID threshold is invoked and the tachycardia detection being a detection of a hemodynamically unstable tachycardia if the second NID threshold is invoked; and

delivering delivering a first therapy upon making a tachycardia detection that the tachycardia that is a hemodynamically hemodynamic stable tachycardia and delivering a second therapy upon detection that the tachycardia that is non-hemodynamic stable a hemodynamically unstable tachycardia.

2-19. (cancelled)

20. (currently amended) A pacing apparatus, comprising:

sensing and pacing circuitry for sensing cardiac activity and generating pacing pulses;

a hemodynamic blood pressure sensor to detect a substantial drop in blood pressure; and

controller circuitry ~~in communication with~~ coupled to the hemodynamic blood pressure sensor, the controller circuitry operable to:

~~sense a heart rate using the sensing and pacing circuitry;~~

~~compare the heart rate to a heart rate threshold value;~~

~~initiate an adjustable number of intervals detected (ND) threshold~~

~~upon detecting the heart rate greater than the heart rate threshold value;~~

~~reset the adjustable ND threshold based on at least a first measurement of a hemodynamic parameter to identify whether a tachycardia is a hemodynamic stable tachycardia or a non hemodynamic stable tachycardia;~~

~~count a consecutive number of intervals in which the heart rate is greater than the heart rate threshold value;~~

~~detect tachycardia if the consecutive number of intervals satisfies the adjustable NID threshold; and~~

~~delivering a first therapy upon detection that the tachycardia is hemodynamic stable tachycardia and a second therapy upon detection that the tachycardia that is non hemodynamic stable tachycardia.~~

sensing a heart rate;

comparing the heart rate to a heart rate threshold value;

monitoring a blood pressure sensor upon detecting the heart rate greater than the heart rate threshold value to detect a substantial drop in blood pressure;

invoking a first number of intervals detected (NID) threshold upon detecting the heart rate greater than the heart rate threshold value if a substantial drop in blood pressure is not detected;
invoking a second NID threshold that is lower than the first NID threshold upon detecting a substantial drop in blood pressure;
counting a consecutive number of intervals in which the heart rate is greater than the heart rate threshold value;
making a tachycardia detection if the consecutive number of intervals satisfies the invoked NID threshold, the tachycardia detection being a detection of a hemodynamically stable tachycardia if the first NID threshold is invoked and the tachycardia detection being a detection of a hemodynamically unstable tachycardia if the second NID threshold is invoked ; and
delivering a first therapy upon making a tachycardia detection that the tachycardia is a hemodynamically stable tachycardia and delivering a second therapy upon detection that the tachycardia that is a hemodynamically unstable tachycardia.

21-36. (cancelled)